



SEQUENCE LISTING

<110> ELLIOTT, VICKI S.
KHARE, REENA
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KABLE, AMY E.
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JIN, PEI
BECHA, SHANYA D.
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SWARNAKAR, ANITA
CHAWLA, NARINDER K.
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LEE, SOO YEUN
JIANG, XIN
JACKSON, ALAN A.
RICHARDSON, THOMAS W.
BLAKE, JULIE J.
WANG, JONATHAN T.
CHIEN, DAVID
YANG, YONGHONG G.

<120> CELL ADHESION AND EXTRACELLULAR MATRIX PROTEINS

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<150> PCT/US03/25418

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 Ala Gly Phe His Leu Ser Gly Ala Ala Gly Asp Ser Val Cys Gln Asp
 210 215 220
 Val Asp Glu Cys Val Gly Leu Gln Pro Val Cys Pro Gln Gly Thr Thr
 225 230 235 240
 Cys Ile Asn Thr Gly Gly Ser Phe Gln Cys Val Ser Pro Glu Cys Pro
 245 250 255
 Glu Gly Ser Gly Asn Val Ser Tyr Val Lys Thr Ser Pro Phe Gln Cys
 260 265 270
 Glu Arg Asn Pro Cys Pro Met Asp Ser Arg Pro Cys Arg His Leu Pro
 275 280 285
 Lys Thr Ile Ser Phe His Tyr Leu Ser Leu Pro Ser Asn Leu Lys Thr
 290 295 300
 Pro Ile Thr Leu Phe Arg Met Ala Thr Ala Ser Ala Pro Gly Arg Ala
 305 310 315 320
 Gly Pro Asn Ser Leu Arg Phe Gly Ile Val Gly Gly Asn Ser Arg Gly
 325 330 335
 His Phe Val Met Gln Arg Ser Asp Arg Gln Thr Gly Asp Leu Ile Leu
 340 345 350
 Val Gln Asn Leu Glu Gly Pro Gln Thr Leu Glu Val Asp Val Asp Met
 355 360 365
 Ser Glu Tyr Leu Asp Arg Ser Phe Gln Ala Asn His Val Ser Lys Val
 370 375 380
 Thr Ile Phe Val Ser Pro Tyr Asp Phe
 385 390

<210> 4
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 4
 Met Ser Leu Leu Gly Pro Lys Val Leu Leu Phe Leu Ala Ala Phe Ile
 1 5 10 15
 Ile Thr Ser Asp Trp Ile Pro Leu Gly Val Asn Ser Gln Arg Gly Asp
 20 25 30
 Asp Val Thr Gln Ala Thr Pro Glu Thr Phe Thr Glu Asp Pro Asn Leu
 35 40 45
 Val Asn Asp Pro Ala Thr Asp Glu Thr Glu Cys Trp Asp Glu Lys Phe
 50 55 60
 Thr Cys Thr Arg Leu Tyr Ser Val His Arg Pro Val Lys Gln Cys Ile
 65 70 75 80
 His Gln Leu Cys Phe Thr Ser Leu Arg Arg Met Tyr Ile Val Asn Lys
 85 90 95
 Glu Ile Cys Ser Arg Leu Val Cys Lys Glu His Glu Ala Met Lys Asp
 100 105 110
 Glu Leu Cys Arg Gln Met Ala Gly Leu Pro Pro Arg Arg Leu Arg Arg
 115 120 125
 Ser Asn Tyr Phe Arg Leu Pro Pro Cys Glu Asn Val Asp Leu Gln Arg
 130 135 140
 Pro Asn Gly Leu
 145

<210> 5
 <211> 343
 <212> PRT
 <213> Homo sapiens

<400> 5
 Met Pro Arg Pro Arg Leu Leu Ala Ala Leu Cys Gly Ala Leu Leu Cys
 1 5 10 15
 Ala Pro Ser Leu Leu Val Ala Leu Glu Cys Val Glu Pro Leu Gly Leu
 20 25 30
 Glu Asn Gly Asn Ile Ala Asn Ser Gln Ile Ala Ala Ser Ser Val Arg
 35 40 45
 Val Thr Phe Leu Gly Leu Gln His Trp Val Pro Glu Leu Ala Arg Leu
 50 55 60
 Asn Arg Ala Gly Met Val Asn Ala Trp Thr Pro Ser Ser Asn Asp Asp
 65 70 75 80

Asn Pro Trp Ile Gln Val Asn Leu Leu Arg Arg Met Trp Val Thr Gly
 85 90 95
 Val Val Thr Gln Gly Ala Ser Arg Leu Ala Ser His Glu Tyr Leu Lys
 100 105 110
 Ala Phe Lys Val Ala Tyr Ser Leu Asn Gly His Glu Phe Asp Phe Ile
 115 120 125
 His Asp Val Asn Lys Lys His Lys Glu Phe Val Gly Asn Trp Asn Lys
 130 135 140
 Asn Ala Val His Val Asn Leu Phe Glu Thr Pro Val Glu Ala Gln Tyr
 145 150 155 160
 Val Arg Leu Tyr Pro Thr Ser Cys His Thr Ala Cys Thr Leu Arg Phe
 165 170 175
 Glu Leu Leu Gly Cys Glu Leu Asn Gly Cys Ala Asn Pro Leu Gly Leu
 180 185 190
 Lys Asn Asn Ser Ile Pro Asp Lys Gln Ile Thr Ala Ser Ser Ser Tyr
 195 200 205
 Lys Thr Trp Gly Leu His Leu Phe Ser Trp Asn Pro Ser Tyr Ala Arg
 210 215 220
 Leu Asp Lys Gln Gly Asn Phe Asn Ala Trp Val Ala Gly Ser Tyr Gly
 225 230 235 240
 Asn Asp Gln Trp Leu Gln Val Asp Leu Gly Ser Ser Lys Glu Val Thr
 245 250 255
 Gly Ile Ile Thr Gln Gly Ala Arg Asn Phe Gly Ser Val Gln Phe Val
 260 265 270
 Ala Ser Tyr Lys Val Ala Tyr Ser Asn Asp Ser Ala Asn Trp Thr Glu
 275 280 285
 Tyr Gln Asp Pro Arg Thr Gly Ser Ser Lys Ile Phe Pro Gly Asn Trp
 290 295 300
 Asp Asn His Ser His Lys Lys Asn Leu Phe Glu Thr Pro Ile Leu Ala
 305 310 315 320
 Arg Tyr Val Arg Ile Leu Pro Val Ala Trp His Asn Arg Ile Ala Leu
 325 330 335
 Arg Leu Glu Leu Leu Gly Cys
 340

<210> 6

<211> 110

<212> PRT

<213> Homo sapiens

<400> 6

Met Leu Pro Cys Ala Ser Cys Leu Pro Gly Ser Leu Leu Leu Trp Ala
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Gly Ser Ala Ser Pro Gln Asp Ser Glu Glu
 20 25 30
 Pro Asp Ser Tyr Thr Glu Cys Thr Asp Gly Tyr Glu Trp Asp Pro Asp
 35 40 45
 Ser Gln His Cys Arg Gly Val Cys Ala Trp Gly Thr Lys His Pro Gln
 50 55 60
 Glu Pro Gly Lys Gly Leu Ile Ala Ala Phe Gln Glu Thr Ala Pro Pro
 65 70 75 80
 Pro Arg Thr Ala Val Gly Ala Gln Gln Pro Val Leu Cys Pro Ala Leu
 85 90 95
 Leu His Arg Gly Gln Leu Trp Leu Ser Gly Gly Gln Leu Ser
 100 105 110

<210> 7

<211> 724

<212> PRT

<213> Homo sapiens

<400> 7

Met Gly Ile Glu Leu Leu Cys Leu Phe Phe Leu Phe Leu Gly Arg Asn
 1 5 10 15
 Asp His Val Gln Gly Gly Cys Ala Leu Gly Gly Ala Glu Thr Cys Glu
 20 25 30
 Asp Cys Leu Leu Ile Gly Pro Gln Cys Ala Trp Cys Ala Gln Glu Asn
 35 40 45
 Phe Thr His Pro Ser Gly Val Gly Glu Arg Cys Asp Thr Pro Ala Asn
 50 55 60
 Leu Leu Ala Lys Gly Cys Gln Leu Asn Phe Ile Glu Asn Pro Val Ser
 65 70 75 80
 Gln Val Glu Ile Leu Lys Asn Lys Pro Leu Ser Val Gly Arg Gln Lys
 85 90 95
 Asn Ser Ser Asp Ile Val Gln Ile Ala Pro Gln Ser Leu Ile Leu Lys
 100 105 110
 Leu Arg Pro Gly Gly Ala Gln Thr Leu Gln Val His Val Arg Gln Thr
 115 120 125
 Glu Asp Tyr Pro Val Asp Leu Tyr Tyr Leu Met Asp Leu Ser Ala Ser
 130 135 140
 Met Asp Asp Asp Leu Asn Thr Ile Lys Glu Leu Gly Ser Arg Leu Ser
 145 150 155 160

Lys Glu Met Ser Lys Leu Thr Ser Asn Phe Arg Leu Gly Phe Gly Ser
 165 170 175
 Phe Val Glu Lys Pro Val Ser Pro Phe Val Lys Thr Thr Pro Glu Glu
 180 185 190
 Ile Ala Asn Pro Cys Ser Ser Ile Pro Tyr Phe Cys Leu Pro Thr Phe
 195 200 205
 Gly Phe Lys His Ile Leu Pro Leu Thr Asn Asp Ala Glu Arg Phe Asn
 210 215 220
 Glu Ile Val Lys Asn Gln Lys Ile Ser Ala Asn Ile Asp Thr Pro Glu
 225 230 235 240
 Gly Gly Phe Asp Ala Ile Met Gln Ala Ala Val Cys Lys Glu Lys Ile
 245 250 255
 Gly Trp Arg Asn Asp Ser Leu His Leu Leu Val Phe Val Ser Asp Ala
 260 265 270
 Asp Ser His Phe Gly Met Asp Ser Lys Leu Ala Gly Ile Val Ile Pro
 275 280 285
 Asn Asp Gly Leu Cys His Leu Asp Ser Lys Asn Glu Tyr Ser Met Ser
 290 295 300
 Thr Val Leu Glu Tyr Pro Thr Ile Gly Gln Leu Ile Asp Lys Leu Val
 305 310 315 320
 Gln Asn Asn Val Leu Leu Ile Phe Ala Val Thr Gln Glu Gln Val His
 325 330 335
 Leu Tyr Glu Asn Tyr Ala Lys Leu Ile Pro Gly Ala Thr Val Gly Leu
 340 345 350
 Leu Gln Lys Asp Ser Gly Asn Ile Leu Gln Leu Ile Ile Ser Ala Tyr
 355 360 365
 Glu Asp Leu Arg Ser Glu Val Glu Leu Glu Val Leu Gly Asp Thr Glu
 370 375 380
 Gly Leu Asn Leu Ser Phe Thr Ala Ile Cys Asn Asn Gly Thr Leu Phe
 385 390 395 400
 Gln His Gln Lys Lys Cys Ser His Met Lys Val Gly Asp Thr Ala Ser
 405 410 415
 Phe Ser Val Thr Val Asn Ile Pro His Cys Glu Arg Arg Ser Arg His
 420 425 430
 Ile Ile Ile Lys Pro Val Gly Leu Gly Asp Ala Leu Glu Leu Leu Val
 435 440 445
 Ser Pro Glu Cys Asn Cys Asp Cys Gln Lys Glu Val Glu Val Asn Ser
 450 455 460

Ser Lys Cys His His Gly Asn Gly Ser Phe Gln Cys Gly Val Cys Ala
 465 470 475 480
 Cys His Pro Gly His Met Gly Pro Arg Cys Asn Gly Asp Cys Asp Cys
 485 490 495
 Gly Glu Cys Val Cys Arg Ser Gly Trp Thr Gly Glu Tyr Cys Asn Cys
 500 505 510
 Thr Thr Ser Thr Asp Ser Cys Val Ser Glu Asp Gly Val Leu Cys Ser
 515 520 525
 Gly Arg Gly Asp Cys Val Cys Gly Lys Cys Val Cys Thr Asn Pro Gly
 530 535 540
 Ala Ser Gly Pro Thr Cys Glu Arg Cys Pro Thr Cys Gly Asp Pro Cys
 545 550 555 560
 Asn Ser Lys Arg Ser Cys Ile Glu Cys His Leu Ser Ala Ala Gly Gln
 565 570 575
 Ala Arg Glu Glu Cys Val Asp Lys Cys Lys Leu Ala Gly Ala Thr Ile
 580 585 590
 Ser Glu Glu Glu Asp Phe Ser Lys Asp Gly Ser Val Ser Cys Ser Leu
 595 600 605
 Gln Gly Glu Asn Glu Cys Leu Ile Thr Phe Leu Ile Thr Thr Asp Asn
 610 615 620
 Glu Gly Lys Thr Ile Ile His Ser Ile Asn Glu Lys Asp Cys Pro Lys
 625 630 635 640
 Pro Pro Asn Ile Pro Met Ile Met Leu Gly Val Ser Leu Ala Ile Leu
 645 650 655
 Leu Ile Gly Val Val Leu Leu Cys Ile Trp Lys Leu Leu Val Ser Phe
 660 665 670
 His Asp Arg Lys Glu Val Ala Lys Phe Glu Ala Glu Arg Ser Lys Ala
 675 680 685
 Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr Arg Gly Ser Thr Ser Thr
 690 695 700
 Phe Lys Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu
 705 710 715 720
 Ser Thr Asp Cys

<210> 8

<211> 445

<212> PRT

<213> Homo sapiens

<400> 8

Met	Gly	Gly	Pro	Arg	Ala	Trp	Ala	Leu	Leu	Cys	Leu	Gly	Leu	Leu	Leu
1				5					10					15	
Pro	Gly	Gly	Gly	Ala	Ala	Trp	Ser	Ile	Gly	Ala	Ala	Pro	Phe	Ser	Gly
			20					25					30		
Arg	Arg	Asn	Trp	Cys	Ser	Tyr	Val	Val	Thr	Arg	Thr	Ile	Ser	Cys	His
		35					40					45			
Val	Gln	Asn	Gly	Thr	Tyr	Leu	Gln	Arg	Val	Leu	Gln	Asn	Cys	Pro	Trp
	50					55					60				
Pro	Met	Ser	Cys	Pro	Gly	Ser	Ser	Tyr	Arg	Thr	Val	Val	Arg	Pro	Thr
65					70				75						80
Tyr	Lys	Val	Met	Tyr	Lys	Ile	Val	Thr	Ala	Arg	Glu	Trp	Arg	Cys	Cys
				85					90					95	
Pro	Gly	His	Ser	Gly	Val	Ser	Cys	Glu	Glu	Val	Ala	Gly	Ser	Ser	Ala
			100					105					110		
Ser	Leu	Glu	Pro	Met	Trp	Ser	Gly	Ser	Thr	Met	Arg	Arg	Met	Ala	Leu
	115						120					125			
Gln	Pro	Thr	Ala	Phe	Ser	Gly	Cys	Leu	Asn	Cys	Ser	Lys	Val	Ser	Glu
	130					135					140				
Leu	Thr	Glu	Arg	Leu	Lys	Val	Leu	Glu	Ala	Lys	Met	Thr	Met	Leu	Thr
145					150					155					160
Val	Ile	Glu	Gln	Pro	Val	Pro	Pro	Thr	Pro	Ala	Thr	Pro	Glu	Asp	Pro
				165					170					175	
Ala	Pro	Leu	Trp	Gly	Pro	Pro	Pro	Ala	Gln	Gly	Ser	Pro	Gly	Asp	Gly
			180					185					190		
Gly	Leu	Gln	Asp	Gln	Val	Gly	Ala	Trp	Gly	Leu	Pro	Gly	Pro	Thr	Gly
	195						200					205			
Pro	Lys	Gly	Asp	Ala	Gly	Ser	Arg	Gly	Pro	Met	Gly	Met	Arg	Gly	Pro
210						215					220				
Pro	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Arg	Ala	Gly	Ala	Val
225					230					235					240
Gly	Thr	Pro	Gly	Glu	Arg	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly
				245					250					255	
Pro	Pro	Gly	Pro	Pro	Ala	Pro	Val	Gly	Pro	Pro	His	Ala	Arg	Ile	Ser
			260					265					270		
Gln	His	Gly	Asp	Pro	Leu	Leu	Ser	Asn	Thr	Phe	Thr	Glu	Thr	Asn	Asn
		275					280					285			
His	Trp	Pro	Gln	Gly	Pro	Thr	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Met
290						295					300				

Gly Pro Pro Gly Pro Pro Gly Pro Thr Gly Val Pro Gly Ser Pro Gly
 305 310 315 320
 His Ile Gly Pro Pro Gly Pro Thr Gly Pro Lys Gly Ile Ser Gly His
 325 330 335
 Pro Gly Glu Lys Gly Glu Arg Gly Leu Arg Gly Glu Pro Gly Pro Gln
 340 345 350
 Gly Ser Ala Gly Gln Arg Gly Glu Pro Gly Pro Lys Gly Asp Pro Gly
 355 360 365
 Glu Lys Ser His Trp Ala Pro Ser Leu Gln Ser Phe Leu Gln Gln Gln
 370 375 380
 Ala Gln Leu Glu Leu Leu Ala Arg Arg Val Thr Leu Leu Glu Ala Ile
 385 390 395 400
 Ile Trp Pro Glu Pro Glu Leu Gly Ser Gly Ala Gly Pro Ala Gly Thr
 405 410 415
 Gly Thr Pro Ser Leu Leu Arg Gly Lys Arg Gly Gly His Ala Thr Asn
 420 425 430
 Tyr Arg Ile Val Ala Pro Arg Ser Arg Asp Glu Arg Gly
 435 440 445

<210> 9
 <211> 279
 <212> PRT
 <213> Homo sapiens

<400> 9
 Met Arg Leu Leu Ala Phe Leu Ser Leu Leu Ala Leu Val Leu Gln Glu
 1 5 10 15
 Thr Gly Thr Ala Ser Leu Pro Arg Lys Glu Arg Lys Arg Arg Glu Glu
 20 25 30
 Gln Met Pro Arg Glu Gly Asp Ser Phe Glu Val Leu Pro Leu Arg Asn
 35 40 45
 Asp Val Leu Asn Pro Asp Asn Tyr Gly Glu Val Ile Asp Leu Ser Asn
 50 55 60
 Tyr Glu Glu Leu Thr Asp Tyr Gly Asp Gln Leu Pro Glu Val Lys Val
 65 70 75 80
 Thr Ser Leu Ala Pro Ala Thr Ser Ile Ser Pro Ala Lys Ser Thr Thr
 85 90 95
 Ala Pro Gly Thr Pro Ser Ser Asn Pro Thr Met Thr Arg Pro Thr Thr
 100 105 110
 Ala Gly Leu Leu Leu Ser Ser Gln Pro Asn His Ala Lys Leu Lys Arg
 115 120 125

Ile Asp Leu Ser Asn Asn Leu Ile Ser Ser Ile Asp Asn Asp Ala Phe
 130 135 140
 Arg Leu Leu His Ala Leu Gln Asp Leu Ile Leu Pro Glu Asn Gln Leu
 145 150 155 160
 Glu Ala Leu Pro Val Leu Pro Ser Gly Ile Glu Phe Leu Asp Val Arg
 165 170 175
 Leu Asn Arg Leu Gln Ser Ser Gly Ile Gln Pro Ala Ala Phe Arg Ala
 180 185 190
 Met Glu Lys Leu Gln Phe Leu Tyr Leu Ser Asp Asn Leu Leu Asp Ser
 195 200 205
 Ile Pro Gly Pro Leu Pro Leu Ser Leu Arg Ser Val His Leu Gln Asn
 210 215 220
 Asn Leu Ile Glu Thr Met Gln Arg Asp Val Phe Cys Asp Pro Glu Glu
 225 230 235 240
 His Lys His Thr Arg Arg Gln Leu Glu Asp Ile Arg Leu Asp Gly Asn
 245 250 255
 Pro Ile Asn Leu Ser Leu Phe Pro Ser Ala Tyr Phe Cys Leu Pro Arg
 260 265 270
 Leu Pro Ile Gly Arg Phe Thr
 275

<210> 10
 <211> 245
 <212> PRT
 <213> Homo sapiens

<400> 10
 Met Ser Ser Arg Ile Ala Arg Ala Leu Ala Leu Val Val Thr Leu Leu
 1 5 10 15
 His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys
 20 25 30
 Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp
 35 40 45
 Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys
 50 55 60
 Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe
 65 70 75 80
 Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu
 85 90 95
 Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser
 100 105 110

Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val
 115 120 125
 Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly
 130 135 140
 Cys Pro Asn Pro Arg Leu Val Lys Val Thr Gly Gln Cys Cys Glu Glu
 145 150 155 160
 Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Pro Met Glu Asp Gln Asp
 165 170 175
 Gly Leu Leu Gly Lys Glu Leu Gly Phe Asp Ala Ser Glu Val Glu Leu
 180 185 190
 Thr Arg Asn Asn Glu Leu Ile Ala Val Gly Lys Gly Ser Ser Leu Lys
 195 200 205
 Arg Leu Pro Gly Lys Trp Arg Leu Ser Thr Ser Asp Thr Val Leu Arg
 210 215 220
 Cys Ile Ser Gly Leu Asn Leu Cys Arg Asn Glu Cys Leu Ser Leu Phe
 225 230 235 240
 Val Ser Val Cys Leu
 245

<210> 11
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 11
 Met Ala Ala Gly Thr Ala Val Gly Ala Trp Val Leu Val Leu Ser Leu
 1 5 10 15
 Trp Gly Ala Val Val Gly Ala Gln Asn Ile Thr Ala Arg Ile Gly Glu
 20 25 30
 Pro Leu Val Leu Lys Cys Lys Gly Ala Pro Lys Lys Pro Pro Gln Arg
 35 40 45
 Leu Glu Trp Lys Leu Asn Thr Gly Arg Thr Glu Ala Trp Lys Val Leu
 50 55 60
 Ser Pro Gln Gly Gly Gly Pro Trp Asp Ser Val Ala Arg Val Leu Pro
 65 70 75 80
 Asn Gly Ser Leu Phe Leu Pro Ala Val Gly Ile Gln Asp Glu Gly Ile
 85 90 95
 Phe Arg Cys Gln Ala Met Asn Arg Asn Gly Lys Glu Thr Lys Ser Asn
 100 105 110
 Tyr Arg Val Arg Val Tyr Gln Ile Pro Gly Lys Pro Glu Ile Val Asp
 115 120 125

Ser Ala Ser Glu Leu Thr Ala Gly Val Pro Asn Lys Val Gly Thr Cys
 130 135 140
 Val Ser Glu Gly Ser Tyr Pro Ala Gly Thr Leu Ser Trp His Leu Asp
 145 150 155 160
 Gly Lys Pro Leu Val Pro Asn Glu Lys Gly Val Ser Val Lys Glu Gln
 165 170 175
 Thr Arg Arg His Pro Glu Thr Gly Leu Phe Thr Leu Gln Ser Glu Leu
 180 185 190
 Met Val Thr Pro Ala Arg Gly Gly Asp Pro Arg Pro Thr Phe Ser Cys
 195 200 205
 Ser Phe Ser Pro Gly Leu Pro Arg His Arg Ala Leu Arg Thr Ala Pro
 210 215 220
 Ile Gln Pro Arg Val Trp Glu Pro Val Pro Leu Glu Glu Val Gln Leu
 225 230 235 240
 Val Val Glu Pro Glu Gly Gly Ala Val Ala Pro Gly Gly Thr Val Thr
 245 250 255
 Leu Thr Cys Glu Val Pro Ala Gln Pro Ser Pro Gln Ile His Trp Met
 260 265 270
 Lys Asp Asn Gln Ala Arg Arg Gly Gln Leu Gln Val Arg Gly Leu Ile
 275 280 285
 Lys Ser Gly Lys Gln Lys Ile Ala Pro Asn Thr Cys Asp Trp Gly Asp
 290 295 300
 Gly Gln Gln Glu Arg Asn Gly Arg Pro Gln Lys Thr Arg Arg Lys Arg
 305 310 315 320
 Arg Ser Val Gln Asn
 325

<210> 12

<211> 58

<212> PRT

<213> Homo sapiens

<400> 12

Met Arg Ala Ala Tyr Leu Phe Leu Leu Phe Leu Pro Ala Gly Leu Leu
 1 5 10 15
 Ala Gln Gly Gln Tyr Asp Leu Asp Pro Leu Pro Pro Phe Pro Asp His
 20 25 30
 Val Gln Tyr Thr His Tyr Ser Asp Gln Ile Asp Asn Pro Asp Tyr Tyr
 35 40 45
 Asp Tyr Gln Gly Asn Gly Leu Gly Val Gly
 50 55

<210> 13
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 13

```

Met Gly Thr Trp Ile Leu Phe Ala Cys Leu Leu Gly Ala Ala Phe Ala
 1           5           10           15

Met Pro Val Leu Thr Pro Leu Lys Trp Tyr Gln Ser Ile Arg Pro Pro
          20           25           30

His Pro Pro Thr His Thr Leu Gln Pro His His His Ile Pro Val Val
      35           40           45

Pro Ala Gln Gln Pro Val Ile Pro Gln Gln Pro Met Met Pro Val Pro
      50           55           60

Gly Gln His Ser Met Thr Pro Ile Gln His His Gln Pro Asn Leu Pro
 65           70           75           80

Pro Pro Ala Gln Gln Pro Tyr Gln Pro Gln Pro Val Gln Pro Gln Pro
          85           90           95

His Gln Pro Met Gln Pro Gln Pro Pro Val His Pro Met Gln Pro Leu
      100           105           110

Pro Pro Gln Pro Pro Leu Pro Pro Met Phe Pro Met Gln Pro Leu Pro
      115           120           125

Pro Met Leu Pro Asp Leu Thr Leu Glu Ala Trp Pro Ser Thr Asp Lys
      130           135           140

Thr Lys Arg Glu Glu Val Asp
145           150

```

<210> 14
 <211> 175
 <212> PRT
 <213> Homo sapiens

<400> 14

```

Met Gly Thr Trp Ile Leu Phe Ala Cys Leu Leu Gly Ala Ala Phe Ala
 1           5           10           15

Met Pro Val Leu Thr Pro Leu Lys Trp Tyr Gln Ser Ile Arg Pro Pro
          20           25           30

Tyr Pro Ser Tyr Gly Tyr Glu Pro Met Gly Gly Trp Leu His His Gln
      35           40           45

Ile Ile Pro Val Leu Ser Gln Gln His Pro Pro Thr His Thr Leu Gln
      50           55           60

Pro His His His Ile Pro Val Val Pro Ala Gln Gln Pro Val Ile Pro
      65           70           75           80

```

Gln	Gln	Pro	Met	Met	Pro	Val	Pro	Gly	Gln	His	Ser	Met	Thr	Pro	Ile
				85					90					95	
Gln	His	His	Gln	Pro	Asn	Leu	Pro	Pro	Pro	Ala	Gln	Gln	Pro	Tyr	Gln
			100					105					110		
Pro	Gln	Pro	Val	Gln	Pro	Gln	Pro	His	Gln	Pro	Met	Gln	Pro	Gln	Pro
		115					120					125			
Pro	Val	His	Pro	Met	Gln	Pro	Leu	Pro	Pro	Gln	Pro	Pro	Leu	Pro	Pro
	130					135					140				
Met	Phe	Pro	Met	Gln	Pro	Leu	Pro	Pro	Met	Leu	Pro	Asp	Leu	Thr	Leu
145					150					155					160
Glu	Ala	Trp	Pro	Ser	Thr	Asp	Lys	Thr	Lys	Arg	Glu	Glu	Val	Asp	
				165					170					175	

```
<210> 15
<211> 81
<212> PRT
<213> Homo sapiens
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```
<400> 15  
Met Gly Gly Ala Gly Ile Leu Leu Leu Leu Leu Ala Gly Ala Gly Val  
   1                               10                          15  
  
Val Val Ala Trp Arg Pro Pro Lys Gly Lys Cys Pro Leu Arg Cys Ser  
      20                25          30  
  
Cys Ser Lys Asp Ser Ala Leu Cys Glu Gly Ser Pro Asp Leu Pro Val  
     35              40            45  
  
Ser Phe Ser Pro Thr Leu Leu Ser Leu Ser Leu Val Arg Thr Gly Val  
    50             55           60  
  
Thr Gln Leu Lys Ala Gly Ser Phe Leu Arg Ile Pro Ser Leu His Leu  
   65               70             75                 80  
  
Leu
```

```
<210> 16
<211> 749
<212> PRT
<213> Homo sapiens
```

```

<400> 16
Met Met Phe Pro Trp Lys Gln Leu Ile Leu Leu Ser Phe Ile Gly Cys
  1                               10                      15

Leu Gly Gly Glu Leu Leu Leu Gln Gly Pro Val Phe Ile Lys Glu Pro
      20                      25                      30

```

Ser	Asn	Ser	Ile	Phe	Pro	Val	Gly	Ser	Glu	Asp	Lys	Lys	Ile	Thr	Leu	35	40	45
His	Cys	Glu	Ala	Arg	Gly	Asn	Pro	Ser	Pro	His	Tyr	Arg	Trp	Gln	Leu	50	55	60
Asn	Gly	Ser	Asp	Ile	Asp	Met	Ser	Met	Glu	His	Arg	Tyr	Lys	Leu	Asn	65	70	75
Gly	Gly	Asn	Leu	Val	Val	Ile	Asn	Pro	Asn	Arg	Asn	Trp	Asp	Thr	Gly	85	90	95
Thr	Tyr	Gln	Cys	Phe	Ala	Thr	Asn	Ser	Leu	Gly	Thr	Ile	Val	Ser	Arg	100	105	110
Glu	Ala	Lys	Leu	Gln	Phe	Ala	Tyr	Leu	Glu	Asn	Phe	Lys	Thr	Lys	Met	115	120	125
Arg	Ser	Thr	Val	Ser	Val	Arg	Glu	Gly	Gln	Gly	Val	Val	Leu	Leu	Cys	130	135	140
Gly	Pro	Pro	Pro	His	Ser	Gly	Glu	Leu	Ser	Tyr	Ala	Trp	Ile	Phe	Asn	145	150	155
Glu	Tyr	Pro	Ser	Phe	Val	Glu	Glu	Asp	Ser	Arg	Arg	Phe	Val	Ser	Gln	165	170	175
Glu	Thr	Gly	His	Leu	Tyr	Ile	Ser	Lys	Val	Glu	Pro	Ser	Asp	Val	Gly	180	185	190
Asn	Tyr	Thr	Cys	Val	Val	Thr	Ser	Met	Val	Thr	Asn	Ala	Arg	Val	Leu	195	200	205
Gly	Ser	Pro	Thr	Pro	Leu	Val	Leu	Arg	Ser	Asp	Gly	Val	Met	Gly	Glu	210	215	220
Tyr	Glu	Pro	Lys	Ile	Glu	Val	Gln	Phe	Pro	Glu	Thr	Leu	Pro	Ala	Ala	225	230	235
Lys	Gly	Ser	Thr	Val	Lys	Leu	Glu	Cys	Phe	Ala	Leu	Gly	Asn	Lys	Ala	245	250	255
Pro	Leu	Gly	Ser	Thr	His	Lys	Gly	Cys	Gly	Asn	Ser	Arg	Gly	Gly	Gln	260	265	270
Ser	Leu	Leu	Gly	Met	Gln	Gly	Lys	Arg	Gln	Ala	Gln	Ala	Phe	Leu	Pro	275	280	285
Met	Ala	Glu	Lys	Trp	Ser	Ser	Pro	Gly	Ala	Arg	Ala	Ser	Ala	Pro	Asp	290	295	300
Phe	Ser	Lys	Asn	Pro	Met	Lys	Lys	Leu	Val	Gln	Val	Gln	Val	Gly	Ser	305	310	315
Leu	Val	Ser	Leu	Asp	Cys	Lys	Pro	Arg	Ala	Ser	Pro	Arg	Ala	Leu	Ser	325	330	335

Ser Trp Lys Lys Gly Asp Val Ser Val Gln Glu His Glu Arg Ile Ser
 340 345 350
 Leu Leu Asn Asp Gly Gly Leu Lys Ile Ala Asn Val Thr Lys Ala Asp
 355 360 365
 Ala Gly Thr Tyr Thr Cys Met Ala Glu Asn Gln Phe Gly Lys Ala Asn
 370 375 380
 Gly Thr Thr His Leu Val Val Thr Glu Pro Thr Arg Ile Thr Leu Ala
 385 390 395 400
 Pro Ser Asn Met Asp Val Ser Val Gly Glu Ser Val Ile Leu Pro Cys
 405 410 415
 Gln Val Gln His Asp Pro Leu Leu Asp Ile Ile Phe Thr Trp Tyr Phe
 420 425 430
 Asn Gly Ala Leu Ala Asp Phe Lys Lys Asp Gly Ser His Phe Glu Lys
 435 440 445
 Val Gly Gly Ser Ser Ser Gly Asp Leu Met Ile Arg Asn Ile Gln Leu
 450 455 460
 Lys His Ser Gly Lys Tyr Val Cys Met Val Gln Thr Gly Val Asp Ser
 465 470 475 480
 Val Ser Ser Ala Ala Asp Leu Ile Val Arg Gly Ser Pro Gly Pro Pro
 485 490 495
 Glu Asn Val Lys Val Asp Glu Ile Thr Asp Thr Thr Ala Gln Leu Ser
 500 505 510
 Trp Lys Glu Gly Lys Asp Asn His Ser Pro Val Ile Ser Tyr Ser Ile
 515 520 525
 Gln Ala Arg Thr Pro Phe Ser Val Gly Trp Gln Thr Val Thr Thr Val
 530 535 540
 Pro Glu Val Ile Asp Gly Lys Thr His Thr Ala Thr Val Val Glu Leu
 545 550 555 560
 Asn Pro Trp Val Glu Tyr Glu Phe Arg Val Val Ala Ser Asn Lys Ile
 565 570 575
 Gly Gly Gly Glu Pro Ser Leu Pro Ser Glu Lys Val Arg Thr Glu Glu
 580 585 590
 Ala Val Pro Glu Val Pro Pro Ser Glu Val Asn Gly Gly Gly Ser
 595 600 605
 Arg Ser Glu Leu Val Ile Thr Trp Asp Pro Val Pro Glu Glu Leu Gln
 610 615 620
 Asn Gly Glu Gly Phe Gly Tyr Val Val Ala Phe Arg Pro Leu Gly Val
 625 630 635 640

Thr Thr Trp Ile Gln Thr Val Val Thr Ser Pro Asp Thr Pro Arg Tyr
 645 650 655
 Val Phe Arg Asn Glu Ser Ile Val Pro Tyr Ser Pro Tyr Glu Val Lys
 660 665 670
 Val Gly Val Tyr Asn Asn Lys Gly Glu Gly Pro Phe Ser Pro Val Thr
 675 680 685
 Thr Val Phe Ser Ala Glu Glu Glu Pro Thr Val Ala Pro Ser Gln Val
 690 695 700
 Ser Ala Asn Ser Leu Ser Ser Ser Glu Ile Glu Val Ser Trp Asn Thr
 705 710 715 720
 Ile Pro Trp Lys Leu Ser Asn Gly His Leu Leu Gly Tyr Glu Val Arg
 725 730 735
 Tyr Trp Asn Gly Val Glu Arg Arg Asn His Pro Val Arg
 740 745

<210> 17
 <211> 999
 <212> PRT
 <213> Homo sapiens

<400> 17
 Met Met Phe Pro Trp Lys Gln Leu Ile Leu Leu Ser Phe Ile Gly Cys
 1 5 10 15
 Leu Gly Gly Glu Leu Leu Leu Gln Gly Pro Val Phe Ile Lys Glu Pro
 20 25 30
 Ser Asn Ser Ile Phe Pro Val Gly Ser Glu Asp Lys Lys Ile Thr Leu
 35 40 45
 His Cys Glu Ala Arg Gly Asn Pro Ser Pro His Tyr Arg Trp Gln Leu
 50 55 60
 Asn Gly Ser Asp Ile Asp Met Ser Met Glu His Arg Tyr Lys Leu Asn
 65 70 75 80
 Gly Gly Asn Leu Val Val Ile Asn Pro Asn Arg Asn Trp Asp Thr Gly
 85 90 95
 Thr Tyr Gln Cys Phe Ala Thr Asn Ser Leu Gly Thr Ile Val Ser Arg
 100 105 110
 Glu Ala Lys Leu Gln Phe Ala Tyr Leu Glu Asn Phe Lys Thr Lys Met
 115 120 125
 Arg Ser Thr Val Ser Val Arg Glu Gly Gln Gly Val Val Leu Leu Cys
 130 135 140
 Gly Pro Pro Pro His Ser Gly Glu Leu Ser Tyr Ala Trp Ile Phe Asn
 145 150 155 160

Glu	Tyr	Pro	Ser	Phe	Val	Glu	Glu	Asp	Ser	Arg	Arg	Phe	Val	Ser	Gln	165	170	175
Glu	Thr	Gly	His	Leu	Tyr	Ile	Ser	Lys	Val	Glu	Pro	Ser	Asp	Val	Gly	180	185	190
Asn	Tyr	Thr	Cys	Val	Val	Thr	Ser	Met	Val	Thr	Asn	Ala	Arg	Val	Leu	195	200	205
Gly	Ser	Pro	Thr	Pro	Leu	Val	Leu	Arg	Ser	Asp	Gly	Val	Met	Gly	Glu	210	215	220
Tyr	Glu	Pro	Lys	Ile	Glu	Val	Gln	Phe	Pro	Glu	Thr	Leu	Pro	Ala	Ala	225	230	235
Lys	Gly	Ser	Thr	Val	Lys	Leu	Glu	Cys	Phe	Ala	Leu	Gly	Asn	Pro	Ile	245	250	255
Pro	Gln	Ile	Asn	Trp	Arg	Arg	Ser	Asp	Gly	Leu	Pro	Phe	Ser	Ser	Lys	260	265	270
Ile	Lys	Leu	Arg	Lys	Phe	Ser	Gly	Val	Leu	Glu	Ile	Pro	Asn	Phe	Gln	275	280	285
Gln	Glu	Asp	Ala	Gly	Ser	Tyr	Glu	Cys	Ile	Ala	Glu	Asn	Ser	Gln	Gly	290	295	300
Lys	Asn	Val	Ala	Arg	Gly	Arg	Leu	Thr	Tyr	Tyr	Ala	Lys	Pro	His	Trp	305	310	315
Val	Gln	Leu	Ile	Lys	Asp	Val	Glu	Ile	Ala	Val	Glu	Asp	Ser	Leu	Tyr	325	330	335
Trp	Glu	Cys	Arg	Ala	Ser	Gly	Lys	Pro	Lys	Pro	Ser	Tyr	Arg	Trp	Leu	340	345	350
Lys	Asn	Gly	Ala	Ala	Leu	Val	Leu	Glu	Glu	Arg	Thr	Gln	Ile	Glu	Asn	355	360	365
Gly	Ala	Leu	Thr	Ile	Ser	Asn	Leu	Ser	Val	Thr	Asp	Ser	Gly	Met	Phe	370	375	380
Gln	Cys	Ile	Ala	Glu	Asn	Lys	His	Gly	Leu	Val	Tyr	Ser	Ser	Ala	Glu	385	390	395
Leu	Lys	Val	Val	Ala	Ser	Ala	Pro	Asp	Phe	Ser	Lys	Asn	Pro	Met	Lys	405	410	415
Lys	Leu	Val	Gln	Val	Gln	Val	Gly	Ser	Leu	Val	Ser	Leu	Asp	Cys	Lys	420	425	430
Pro	Arg	Ala	Ser	Pro	Arg	Ala	Leu	Ser	Ser	Trp	Lys	Lys	Gly	Asp	Val	435	440	445
Ser	Val	Gln	Glu	His	Glu	Arg	Ile	Ser	Leu	Leu	Asn	Asp	Gly	Gly	Leu	450	455	460

Lys	Ile	Ala	Asn	Val	Thr	Lys	Ala	Asp	Ala	Gly	Thr	Tyr	Thr	Cys	Met	465	470	475	480
Ala	Glu	Asn	Gln	Phe	Gly	Lys	Ala	Asn	Gly	Thr	Thr	His	Leu	Val	Val	485	490	495	
Thr	Glu	Pro	Thr	Arg	Ile	Thr	Leu	Ala	Pro	Ser	Asn	Met	Asp	Val	Ser	500	505	510	
Val	Gly	Glu	Ser	Val	Ile	Leu	Pro	Cys	Gln	Val	Gln	His	Asp	Pro	Leu	515	520	525	
Leu	Asp	Ile	Ile	Phe	Thr	Trp	Tyr	Phe	Asn	Gly	Ala	Leu	Ala	Asp	Phe	530	535	540	
Lys	Lys	Asp	Gly	Ser	His	Phe	Glu	Lys	Val	Gly	Gly	Ser	Ser	Ser	Gly	545	550	555	560
Asp	Leu	Met	Ile	Arg	Asn	Ile	Gln	Leu	Lys	His	Ser	Gly	Lys	Tyr	Val	565	570	575	
Cys	Met	Val	Gln	Thr	Gly	Val	Asp	Ser	Val	Ser	Ser	Ala	Ala	Asp	Leu	580	585	590	
Ile	Val	Arg	Gly	Ser	Pro	Gly	Pro	Pro	Glu	Asn	Val	Lys	Ala	Arg	Thr	595	600	605	
Pro	Phe	Ser	Val	Gly	Trp	Gln	Thr	Val	Thr	Thr	Val	Pro	Glu	Val	Ile	610	615	620	
Asp	Gly	Lys	Thr	His	Thr	Ala	Thr	Val	Val	Glu	Leu	Asn	Pro	Trp	Val	625	630	635	640
Glu	Tyr	Glu	Phe	Arg	Val	Val	Ala	Ser	Asn	Lys	Ile	Gly	Gly	Gly	Glu	645	650	655	
Pro	Ser	Leu	Pro	Ser	Glu	Lys	Val	Arg	Thr	Glu	Glu	Ala	Val	Pro	Glu	660	665	670	
Val	Pro	Pro	Ser	Glu	Val	Asn	Gly	Gly	Gly	Gly	Ser	Arg	Ser	Glu	Leu	675	680	685	
Val	Ile	Thr	Trp	Asp	Pro	Val	Pro	Glu	Glu	Leu	Gln	Asn	Gly	Glu	Gly	690	695	700	
Phe	Gly	Tyr	Val	Val	Ala	Phe	Arg	Pro	Leu	Gly	Val	Thr	Thr	Trp	Ile	705	710	715	720
Gln	Thr	Val	Val	Thr	Ser	Pro	Asp	Thr	Pro	Arg	Tyr	Val	Phe	Arg	Asn	725	730	735	
Glu	Ser	Ile	Val	Pro	Tyr	Ser	Pro	Tyr	Glu	Val	Lys	Val	Gly	Val	Tyr	740	745	750	
Asn	Asn	Lys	Gly	Glu	Gly	Pro	Phe	Ser	Pro	Val	Thr	Thr	Val	Phe	Ser	755	760	765	

Ala Glu Glu Glu Pro Thr Val Ala Pro Ser Gln Val Ser Ala Asn Ser
 770 775 780
 Leu Ser Ser Ser Glu Ile Glu Val Ser Trp Asn Thr Ile Pro Trp Lys
 785 790 795 800
 Leu Ser Asn Gly His Leu Leu Gly Tyr Glu Val Arg Tyr Trp Asn Gly
 805 810 815
 Gly Gly Lys Glu Glu Ser Ser Ser Lys Met Lys Val Ala Gly Asn Glu
 820 825 830
 Thr Ser Ala Arg Leu Arg Gly Leu Lys Ser Asn Leu Ala Tyr Tyr Thr
 835 840 845
 Ala Val Arg Ala Tyr Asn Ser Ala Gly Ala Gly Pro Phe Ser Ala Thr
 850 855 860
 Val Asn Val Thr Thr Lys Lys Thr Pro Pro Ser Gln Pro Pro Gly Asn
 865 870 875 880
 Val Val Trp Asn Ala Thr Asp Thr Lys Val Leu Leu Asn Trp Glu Gln
 885 890 895
 Val Lys Ala Met Glu Asn Glu Ser Glu Val Thr Gly Tyr Lys Val Phe
 900 905 910
 Tyr Arg Thr Ser Ser Gln Asn Asn Val Gln Val Leu Asn Thr Asn Lys
 915 920 925
 Thr Ser Ala Glu Leu Val Leu Pro Ile Lys Glu Asp Tyr Ile Ile Glu
 930 935 940
 Val Lys Ala Thr Thr Asp Gly Gly Asp Gly Thr Ser Ser Glu Gln Ile
 945 950 955 960
 Arg Ile Pro Arg Ile Thr Ser Met Asp Ala Arg Gly Ser Thr Ser Ala
 965 970 975
 Ile Ser Asn Val His Pro Met Ser Ser Tyr Met Pro Ile Val Leu Phe
 980 985 990
 Leu Ile Val Tyr Val Leu Trp
 995

<210> 18
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 18
 Met Arg Leu Gly Leu Cys Val Val Ala Leu Val Leu Ser Trp Thr His
 1 5 10 15
 Leu Thr Ile Ser Ser Arg Gly Ile Lys Gly Lys Arg Gln Arg Arg Ile
 20 25 30


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<210> 19
<211> 123
<212> PRT
<213> Homo sapiens
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<400> 19
Met Val Arg Pro Met Leu Leu Leu Ser Leu Gly Leu Leu Ala Gly Leu
  1             5             10             15

Leu Pro Ala Leu Ala Ala Cys Pro Gln Asn Cys His Cys His Ser Asp
      20             25             30

Leu Gln His Val Ile Cys Asp Lys Val Gly Leu Gln Lys Ile Pro Lys
      35             40             45

Val Ser Glu Lys Thr Lys Leu Leu Asn Leu Gln Arg Asn Asn Phe Pro
  50             55             60

Val Leu Ala Ala Asn Ser Phe Arg Ala Met Pro Asn Leu Val Ser Leu
  65             70             75             80

His Leu Gln His Cys Gln Ile Arg Glu Val Ala Ala Gly Ala Phe Arg
      85             90             95

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Gly Leu Lys Gln Leu Ile Tyr Leu Tyr Leu Ser His Asn Asp Ile Arg
 100 105 110

Val Leu Arg Ala Ala Gln Gln Gln Gln Asp Pro
 115 120

<210> 20

<211> 101

<212> PRT

<213> Homo sapiens

<400> 20

Met Lys Leu His Cys Cys Leu Phe Thr Leu Val Ala Ser Ile Ile Val
 1 5 10 15

Pro Ala Ala Phe Val Leu Glu Asp Val Asp Phe Asp Gln Met Val Ser
 20 25 30

Leu Glu Ala Asn Arg Ser Ser Tyr Asn Ala Ser Phe Pro Ser Ser Phe
 35 40 45

Glu Leu Ser Ala Ser Ser His Ser Asp Asp Asp Val Ile Ile Ala Lys
 50 55 60

Glu Gly Thr Ser Val Ser Ile Glu Cys Leu Leu Thr Ala Ser His Tyr
 65 70 75 80

Glu Asp Val His Trp His Asn Ser Lys Gly Gln Gln Leu Asp Gly Arg
 85 90 95

Ser Arg Gly Leu Arg
 100

<210> 21

<211> 1040

<212> PRT

<213> Homo sapiens

<400> 21

Met Ile Val Leu Leu Leu Phe Ala Leu Leu Trp Met Val Glu Gly Val
 1 5 10 15

Phe Ser Gln Leu His Tyr Thr Val Gln Glu Glu Gln Glu His Gly Thr
 20 25 30

Phe Val Gly Asn Ile Ala Glu Asp Leu Gly Leu Asp Ile Thr Lys Leu
 35 40 45

Ser Ala Arg Gly Phe Gln Thr Val Pro Asn Ser Arg Thr Pro Tyr Leu
 50 55 60

Asp Leu Asn Leu Glu Thr Gly Val Leu Tyr Val Asn Glu Lys Ile Asp
 65 70 75 80

Arg Glu Gln Ile Cys Lys Gln Ser Pro Ser Cys Val Leu His Leu Glu
 85 90 95

Val Phe Leu Glu Asn Pro Leu Glu Leu Phe Gln Val Glu Ile Glu Val
 100 105 110
 Leu Asp Ile Asn Asp Asn Pro Pro Ser Phe Pro Glu Pro Asp Leu Thr
 115 120 125
 Val Glu Ile Ser Glu Ser Ala Thr Pro Gly Thr Arg Phe Pro Leu Glu
 130 135 140
 Ser Ala Phe Asp Pro Asp Val Gly Thr Asn Ser Leu Arg Asp Tyr Glu
 145 150 155 160
 Ile Thr Pro Asn Ser Tyr Phe Ser Leu Asp Val Gln Thr Gln Gly Asp
 165 170 175
 Gly Asn Arg Phe Ala Glu Leu Val Leu Glu Lys Pro Leu Asp Arg Glu
 180 185 190
 Gln Gln Ala Val His Arg Tyr Val Leu Thr Ala Val Asp Gly Gly Gly
 195 200 205
 Gly Gly Gly Val Gly Glu Gly Gly Gly Gly Gly Gly Ala Gly Leu
 210 215 220
 Pro Pro Gln Gln Gln Arg Thr Gly Thr Ala Leu Leu Thr Ile Arg Val
 225 230 235 240
 Leu Asp Ser Asn Asp Asn Val Pro Ala Phe Asp Gln Pro Val Tyr Thr
 245 250 255
 Val Ser Leu Pro Glu Asn Ser Pro Pro Gly Thr Leu Val Ile Gln Leu
 260 265 270
 Asn Ala Thr Asp Pro Asp Glu Gly Gln Asn Gly Glu Val Val Tyr Ser
 275 280 285
 Phe Ser Ser His Ile Ser Pro Arg Ala Arg Glu Leu Phe Gly Leu Ser
 290 295 300
 Pro Arg Thr Gly Arg Leu Glu Val Ser Gly Glu Leu Asp Tyr Glu Glu
 305 310 315 320
 Ser Pro Val Tyr Gln Val Tyr Val Gln Ala Lys Asp Leu Gly Pro Asn
 325 330 335
 Ala Val Pro Ala His Cys Lys Val Leu Val Arg Val Leu Asp Ala Asn
 340 345 350
 Asp Asn Ala Pro Glu Ile Ser Phe Ser Thr Val Lys Glu Ala Val Ser
 355 360 365
 Glu Gly Ala Ala Pro Gly Thr Val Val Ala Leu Phe Ser Val Thr Asp
 370 375 380
 Arg Asp Ser Glu Glu Asn Gly Gln Val Gln Cys Glu Leu Leu Gly Asp
 385 390 395 400

Val	Pro	Phe	Arg	Leu	Lys	Ser	Ser	Phe	Lys	Asn	Tyr	Tyr	Thr	Ile	Ile
				405					410					415	
Thr	Glu	Ala	Pro	Leu	Asp	Arg	Glu	Ala	Gly	Asp	Ser	Tyr	Thr	Leu	Thr
			420					425					430		
Val	Val	Ala	Arg	Asp	Arg	Gly	Glu	Pro	Ala	Leu	Ser	Thr	Ser	Lys	Ser
		435					440					445			
Ile	Gln	Val	Gln	Val	Ser	Asp	Val	Asn	Asp	Asn	Ala	Pro	Arg	Phe	Ser
	450					455					460				
Gln	Pro	Val	Tyr	Asp	Val	Tyr	Val	Thr	Glu	Asn	Asn	Val	Pro	Gly	Ala
465					470					475					480
Tyr	Ile	Tyr	Ala	Val	Ser	Ala	Thr	Asp	Arg	Asp	Glu	Gly	Ala	Asn	Ala
			485						490					495	
Gln	Leu	Ala	Tyr	Ser	Ile	Leu	Glu	Cys	Gln	Ile	Gln	Gly	Met	Ser	Val
			500					505					510		
Phe	Thr	Tyr	Val	Ser	Ile	Asn	Ser	Glu	Asn	Gly	Tyr	Leu	Tyr	Ala	Leu
		515					520					525			
Arg	Ser	Phe	Asp	Tyr	Glu	Gln	Leu	Lys	Asp	Phe	Ser	Phe	Gln	Val	Glu
	530					535					540				
Ala	Arg	Asp	Ala	Gly	Ser	Pro	Gln	Ala	Leu	Ala	Gly	Asn	Ala	Thr	Val
545					550					555					560
Asn	Ile	Leu	Ile	Val	Asp	Gln	Asn	Asp	Asn	Ala	Pro	Ala	Ile	Val	Ala
			565						570					575	
Pro	Leu	Pro	Gly	Arg	Asn	Gly	Thr	Pro	Ala	Arg	Glu	Val	Leu	Pro	Arg
			580					585					590		
Ser	Ala	Glu	Pro	Gly	Tyr	Leu	Leu	Thr	Arg	Val	Ala	Ala	Val	Asp	Ala
		595					600					605			
Asp	Asp	Gly	Glu	Asn	Ala	Arg	Leu	Thr	Tyr	Ser	Ile	Val	Arg	Gly	Asn
	610					615					620				
Glu	Met	Asn	Leu	Phe	Arg	Met	Asp	Trp	Arg	Thr	Gly	Glu	Leu	Arg	Thr
625					630					635					640
Ala	Arg	Arg	Val	Pro	Ala	Lys	Arg	Asp	Pro	Gln	Arg	Pro	Tyr	Glu	Leu
				645					650					655	
Val	Ile	Glu	Val	Arg	Asp	His	Gly	Gln	Pro	Pro	Leu	Ser	Ser	Thr	Ala
			660					665					670		
Thr	Leu	Val	Val	Gln	Leu	Val	Asp	Gly	Ala	Val	Glu	Pro	Gln	Gly	Gly
		675					680					685			
Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Glu	His	Gln	Arg	Pro	Ser	Arg
	690					695					700				

Ser	Gly	Gly	Gly	Glu	Thr	Ser	Leu	Asp	Leu	Thr	Leu	Ile	Leu	Ile	Ile	705	710	715	720
Ala	Leu	Gly	Ser	Val	Ser	Phe	Ile	Phe	Leu	Leu	Ala	Met	Ile	Val	Leu	725	730	735	
Ala	Val	Arg	Cys	Gln	Lys	Glu	Lys	Lys	Leu	Asn	Ile	Tyr	Thr	Cys	Leu	740	745	750	
Ala	Ser	Asp	Cys	Cys	Leu	Cys	Cys	Cys	Cys	Cys	Gly	Gly	Gly	Gly	Ser	755	760	765	
Thr	Cys	Cys	Gly	Arg	Gln	Ala	Arg	Ala	Arg	Lys	Lys	Lys	Leu	Ser	Lys	770	775	780	
Ser	Asp	Ile	Met	Leu	Val	Gln	Ser	Ser	Asn	Val	Pro	Ser	Asn	Pro	Ala	785	790	795	800
Gln	Val	Pro	Ile	Glu	Glu	Ser	Gly	Gly	Phe	Gly	Ser	His	His	His	Asn	805	810	815	
Gln	Asn	Tyr	Cys	Tyr	Gln	Val	Cys	Leu	Thr	Pro	Glu	Ser	Ala	Lys	Thr	820	825	830	
Asp	Leu	Met	Phe	Leu	Lys	Pro	Cys	Ser	Pro	Ser	Arg	Ser	Thr	Asp	Thr	835	840	845	
Glu	His	Asn	Pro	Cys	Gly	Ala	Ile	Val	Thr	Gly	Tyr	Thr	Asp	Gln	Gln	850	855	860	
Pro	Asp	Ile	Ile	Ser	Asn	Gly	Ser	Ile	Leu	Ser	Asn	Glu	Thr	Lys	His	865	870	875	880
Gln	Arg	Ala	Glu	Leu	Ser	Tyr	Leu	Val	Asp	Arg	Pro	Arg	Arg	Val	Asn	885	890	895	
Ser	Ser	Ala	Phe	Gln	Glu	Ala	Asp	Ile	Val	Ser	Ser	Lys	Asp	Ser	Gly	900	905	910	
His	Gly	Asp	Ser	Glu	Gln	Gly	Asp	Ser	Asp	His	Asp	Ala	Thr	Asn	Arg	915	920	925	
Ala	Gln	Ser	Ala	Gly	Met	Asp	Leu	Phe	Ser	Asn	Cys	Thr	Glu	Glu	Cys	930	935	940	
Lys	Ala	Leu	Gly	His	Ser	Asp	Arg	Cys	Trp	Met	Pro	Ser	Phe	Val	Pro	945	950	955	960
Ser	Asp	Gly	Arg	Gln	Ala	Ala	Asp	Tyr	Arg	Ser	Asn	Leu	His	Val	Pro	965	970	975	
Gly	Met	Asp	Ser	Val	Pro	Asp	Thr	Glu	Val	Phe	Glu	Thr	Pro	Glu	Ala	980	985	990	
Gln	Pro	Gly	Ala	Glu	Arg	Ser	Phe	Ser	Thr	Phe	Gly	Lys	Glu	Lys	Ala	995	1000	1005	

Leu His Ser Thr Leu Glu Arg Lys Glu Leu Asp Gly Leu Leu Thr Asn
 1010 1015 1020

Thr Arg Ala Pro Tyr Lys Pro Pro Tyr Leu Thr Arg Lys Arg Ile Cys
 1025 1030 1035 1040

<210> 22
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 22
 Met Gly Thr Trp Ile Leu Phe Ala Cys Leu Leu Gly Ala Ala Phe Ala
 1 5 10 15

Met Pro Val Leu Thr Pro Leu Lys Trp Tyr Gln Ser Ile Arg Pro Pro
 20 25 30

Pro Leu Pro Pro Met Leu Pro Asp Leu Thr Leu Glu Ala Trp Pro Ser
 35 40 45

Thr Asp Lys Thr Lys Arg Glu Val Asp
 50 55

<210> 23
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 23
 Met Gly Thr Trp Ile Leu Phe Ala Cys Leu Leu Gly Ala Ala Phe Ala
 1 5 10 15

Met Pro Leu Pro Pro His Pro Gly His Pro Gly Tyr Ile Asn Phe Ser
 20 25 30

Tyr Glu Val Leu Thr Pro Leu Lys Trp Tyr Gln Ser Ile Arg Pro Pro
 35 40 45

Pro Leu Pro Pro Met Leu Pro Asp Leu Thr Leu Glu Ala Trp Pro Ser
 50 55 60

Thr Asp Lys Thr Lys Arg Glu Glu Val Asp
 65 70

<210> 24
 <211> 366
 <212> PRT
 <213> Homo sapiens

<400> 24

Met	Leu	His	Pro	Glu	Thr	Ser	Pro	Gly	Arg	Gly	His	Leu	Leu	Ala	Val
1				5					10					15	
Leu	Leu	Ala	Leu	Leu	Gly	Thr	Thr	Trp	Ala	Glu	Val	Trp	Pro	Pro	Gln
			20					25					30		
Leu	Gln	Glu	Gln	Ala	Pro	Met	Ala	Gly	Ala	Leu	Asn	Arg	Lys	Glu	Ser
		35					40					45			
Phe	Leu	Leu	Leu	Ser	Leu	His	Asn	Arg	Leu	Arg	Ser	Trp	Val	Gln	Pro
	50					55					60				
Pro	Ala	Ala	Asp	Met	Arg	Arg	Leu	Leu	Val	Trp	Ala	Thr	Ser	Ser	Gln
	65				70					75					80
Leu	Gly	Cys	Gly	Arg	His	Leu	Cys	Ser	Ala	Gly	Gln	Thr	Ala	Ile	Glu
				85					90					95	
Ala	Phe	Val	Cys	Ala	Tyr	Ser	Pro	Gly	Gly	Asn	Trp	Glu	Val	Asn	Gly
			100					105					110		
Lys	Thr	Ile	Ile	Pro	Tyr	Lys	Lys	Gly	Ala	Trp	Cys	Ser	Leu	Cys	Thr
		115					120					125			
Ala	Ser	Val	Ser	Gly	Cys	Phe	Lys	Ala	Trp	Asp	His	Ala	Gly	Gly	Leu
	130					135					140				
Cys	Glu	Val	Pro	Arg	Asn	Pro	Cys	Arg	Met	Ser	Cys	Gln	Asn	His	Gly
	145				150					155					160
Arg	Leu	Asn	Ile	Ser	Thr	Cys	His	Cys	His	Cys	Pro	Pro	Gly	Tyr	Thr
				165					170					175	
Gly	Arg	Tyr	Cys	Gln	Val	Arg	Cys	Ser	Leu	Gln	Cys	Val	His	Gly	Arg
			180					185					190		
Phe	Arg	Glu	Glu	Glu	Cys	Ser	Cys	Val	Cys	Asp	Ile	Gly	Tyr	Gly	Gly
		195					200					205			
Ala	Gln	Cys	Ala	Thr	Lys	Val	His	Phe	Pro	Phe	His	Thr	Cys	Asp	Leu
			210			215					220				
Arg	Ile	Asp	Gly	Asp	Cys	Phe	Met	Val	Ser	Ser	Glu	Ala	Asp	Thr	Tyr
	225				230					235					240
Tyr	Arg	Ala	Arg	Met	Lys	Cys	Gln	Arg	Lys	Gly	Gly	Val	Leu	Ala	Gln
				245					250					255	
Ile	Lys	Ser	Gln	Lys	Val	Gln	Asp	Ile	Leu	Ala	Phe	Tyr	Leu	Gly	Arg
			260					265					270		
Leu	Glu	Thr	Thr	Asn	Glu	Val	Thr	Asp	Ser	Asp	Phe	Glu	Thr	Arg	Asn
		275					280					285			
Phe	Trp	Ile	Gly	Leu	Thr	Tyr	Lys	Thr	Ala	Lys	Asp	Ser	Phe	Arg	Trp
	290					295					300				

Ala Thr Gly Glu His Gln Ala Phe Thr Ser Phe Ala Phe Gly Gln Pro
 305 310 315 320

Asp Asn His Gly Phe Gly Asn Cys Val Glu Leu Gln Ala Ser Ala Ala
 325 330 335

Phe Asn Trp Asn Asp Gln Arg Cys Lys Thr Arg Asn Arg Tyr Ile Cys
 340 345 350

Gln Phe Ala Gln Glu His Ile Ser Arg Trp Gly Pro Gly Ser
 355 360 365

<210> 25
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 25
 Met Val Val Leu Asn Pro Met Thr Leu Gly Ile Tyr Leu Gln Leu Phe
 1 5 10 15

Phe Leu Ser Ile Val Ser Gln Pro Thr Phe Ile Asn Ser Val Leu Pro
 20 25 30

Ile Ser Ala Ala Leu Pro Ser Leu Asp Gln Lys Lys Arg Gly Gly His
 35 40 45

Lys Ala Cys Cys Leu Leu Thr Pro Pro Pro Pro Leu Phe Pro Pro
 50 55 60

Pro Phe Phe Arg Gly Gly Arg Ser Pro Thr
 65 70

<210> 26
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 26
 Met Val Val Leu Asn Pro Met Thr Leu Gly Ile Tyr Leu Gln Leu Phe
 1 5 10 15

Phe Leu Ser Ile Val Ser Gln Pro Thr Phe Ile Asn Ser Val Leu Pro
 20 25 30

Ile Ser Ala Ala Leu Pro Ser Leu Asp Gln Lys Lys Arg Gly Gly His
 35 40 45

Lys Ala Cys Cys Leu Leu Thr Pro Pro Pro Pro Leu Phe Pro Pro
 50 55 60

Pro Phe Phe Arg Gly Gly Arg Ser Pro Leu Leu Ser Pro Asp Met Lys
 65 70 75 80

Asn Leu Met Leu Glu Leu Glu Thr Ser Gln Ser Pro Cys Met Gln Gly
 85 90 95

Ser Leu Gly Ser Pro Gly Pro Pro Gly Pro Gln Gly Pro Pro Gly Leu
 100 105 110
 Pro Gly Lys Thr Gly Pro Lys Gly Glu Lys Gly Arg Pro Gly Pro Pro
 115 120 125
 Gly Val Pro Gly Met Pro Gly Pro Ile Gly Trp Pro Gly Pro Glu Gly
 130 135 140
 Pro Arg Gly Glu Lys Gly Asp Leu Gly Met Met Gly Leu Pro Gly Ser
 145 150 155 160
 Arg Gly Pro Met Gly Ser Lys Gly Tyr Pro Gly Ser Arg Gly Glu Lys
 165 170 175
 Gly Ser Arg Gly Glu Lys Gly Asp Leu Gly Pro Lys Gly Glu Lys Gly
 180 185 190
 Phe Pro Gly Phe Pro Gly Met Leu Gly Gln Lys Gly Glu Met Gly Pro
 195 200 205
 Lys Gly Glu Pro Gly Ile Ala Gly His Arg Gly Pro Thr Gly Arg Pro
 210 215 220
 Gly Lys Arg Gly Lys Gln Gly Gln Lys Gly Asp Ser Gly Val Met Gly
 225 230 235 240
 Pro Pro Gly Lys Pro Gly Pro Ser Gly Gln Pro Gly Arg Pro Gly Pro
 245 250 255
 Pro Gly Pro Pro Pro Ala Asp Phe Cys Gly Gln Gln Pro Gly Gly Ala
 260 265 270

<210> 27
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 27
 Met Pro Pro Leu Trp Ala Leu Leu Ala Leu Gly Cys Leu Arg Phe Gly
 1 5 10 15
 Ser Ala Val Asn Leu Gln Pro Gln Leu Ala Ser Val Thr Phe Ala Thr
 20 25 30
 Asn Asn Pro Thr Leu Thr Thr Val Ala Leu Glu Lys Pro Leu Cys Met
 35 40 45
 Phe Asp Ser Lys Glu Ala Leu Thr Gly Thr His Glu Val Tyr Leu Tyr
 50 55 60
 Val Leu Val Asp Ser Gly Ser Ser Met Ser Trp Ser Ile Cys Pro Arg
 65 70 75 80

Ala Trp

<210> 28

<211> 77

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Ala Thr Ile Ile Leu Leu Leu Leu Ala Gln Val Ser Trp Ala
 1 5 10 15

Gly Pro Phe Gln Gln Arg Gly Leu Phe Asp Phe Met Leu Glu Asp Glu
 20 25 30

Ala Ser Gly Ile Gly Pro Glu Val Pro Asp Asp Arg Asp Phe Glu Pro
 35 40 45

Ser Leu Gly Pro Val Cys Pro Phe Arg Cys Gln Cys His Leu Arg Val
 50 55 60

Val Gln Cys Ser Asp Leu Gly Ile Asp Ser Cys Gln Gln
 65 70 75

<210> 29

<211> 195

<212> PRT

<213> Homo sapiens

<400> 29

Met Arg Leu Leu Ala Phe Leu Ser Leu Leu Ala Leu Val Leu Gln Glu
 1 5 10 15

Thr Gly Thr Ala Ser Leu Pro Arg Lys Glu Arg Lys Arg Arg Glu Glu
 20 25 30

Gln Met Pro Arg Glu Gly Asp Ser Phe Glu Val Leu Pro Leu Arg Asn
 35 40 45

Asp Val Leu Asn Pro Asp Asn Tyr Gly Glu Val Ile Asp Leu Ser Asn
 50 55 60

Tyr Glu Glu Leu Thr Asp Tyr Gly Asp Gln Leu Pro Glu Val Lys Val
 65 70 75 80

Thr Ser Leu Ala Pro Ala Thr Ser Ile Ser Pro Ala Lys Ser Thr Thr
 85 90 95

Ala Pro Gly Thr Pro Ser Ser Asn Pro Thr Met Thr Arg Pro Thr Thr
 100 105 110

Ala Gly Leu Leu Leu Ser Ser Gln Pro Asn His Gly Leu Pro Thr Cys
 115 120 125

Leu Val Cys Val Cys Leu Gly Ser Ser Val Tyr Cys Asp Asp Ile Asp
 130 135 140

Leu Glu Asp Ile Pro Pro Leu Pro Arg Arg Thr Ala Tyr Leu Tyr Ala
 145 150 155 160

Arg Phe Asn Arg Ile Ser Arg Ile Arg Ala Glu Asp Phe Lys Gly Leu
 165 170 175

Arg Pro His Pro Pro Arg Glu Pro Val Gly Ser Ser Ala Arg Ala Ala
 180 185 190

Gln Trp His
 195

<210> 30

<211> 168

<212> PRT

<213> Homo sapiens

<400> 30

Met Ser Ser Phe Gly Tyr Arg Thr Leu Thr Val Ala Leu Phe Thr Leu
 1 5 10 15

Ile Cys Cys Pro Gly Ser Asp Glu Lys Val Phe Glu Val His Val Arg
 20 25 30

Pro Lys Lys Leu Ala Val Glu Pro Lys Gly Ser Leu Glu Val Asn Cys
 35 40 45

Ser Thr Thr Cys Asn Gln Pro Glu Val Gly Gly Leu Glu Thr Ser Leu
 50 55 60

Asp Lys Ile Leu Leu Asp Glu Gln Ala Gln Trp Lys His Tyr Leu Val
 65 70 75 80

Ser Asn Ile Ser His Asp Thr Val Leu Gln Cys His Phe Thr Cys Ser
 85 90 95

Gly Lys Gln Glu Ser Met Asn Ser Asn Val Ser Val Tyr Gln Pro Val
 100 105 110

Ser Asp Ser Gln Met Val Ile Ile Val Thr Val Val Ser Val Leu Leu
 115 120 125

Ser Leu Phe Val Thr Ser Val Leu Leu Cys Phe Ile Phe Gly Gln His
 130 135 140

Leu Arg Gln Gln Arg Met Gly Thr Tyr Gly Val Arg Ala Ala Trp Arg
 145 150 155 160

Arg Leu Pro Gln Ala Phe Arg Pro
 165

<210> 31
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 31

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Met Pro Pro Leu Trp Ala Leu Leu Ala Leu Gly Cys Leu Arg Phe Gly
 1           5           10           15

Ser Ala Val Asn Leu Gln Pro Gln Leu Ala Ser Val Thr Phe Ala Thr
          20           25           30

Asn Asn Pro Thr Leu Thr Thr Val Ala Leu Glu Lys Pro Leu Cys Met
          35           40           45

Phe Asp Ser Lys Glu Ala Leu Thr Gly Thr His Glu Val Tyr Leu Tyr
 50           55           60

Val Leu Val Asp Ser Val Thr Cys Pro Ala Trp Met Pro Leu Gly Met
 65           70           75           80

Cys Pro Arg Pro His Arg Ser
          85

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<210> 32
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 32

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Met Gly Ser Leu Phe Pro Leu Ser Leu Leu Phe Phe Leu Ala Ala Ala
 1           5           10           15

Tyr Pro Gly Val Gly Ser Ala Leu Gly Arg Arg Thr Lys Arg Ala Gln
          20           25           30

Ser Pro Lys Gly Ser Pro Leu Ala Pro Ser Gly Thr Ser Val Pro Phe
          35           40           45

Trp Val Arg Met Asn Pro Glu Phe Val Ala Val Gln Pro Gly Lys Ser
 50           55           60

Val Gln Leu Asn Cys Ser Asn Ser Cys Pro Gln Pro Gln Asn Ser Ser
 65           70           75           80

Leu Arg Thr Pro Leu Arg Gln Gly Lys Thr Leu Arg Gly Pro Gly Trp
          85           90           95

Val Ser Tyr Gln Leu Leu Asp Val Arg Ala Trp Ser Ser Leu Ala His
          100          105          110

Cys Leu Val Thr Cys Ala Gly Lys Thr Arg Trp Ala Thr Ser Arg Ile
          115          120          125

Thr Ala Tyr Ser Val Pro Gly Gly Leu Leu Gly Gly Asp Pro Glu Ala
          130          135          140

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Trp Lys Pro Gly His Leu Phe Arg Lys Pro Gly Ala Leu His Arg Pro
 145 150 155 160
 Gly Ser Gly Gln Arg Asp Leu Asp Leu Arg Val Cys Cys Trp Thr Pro
 165 170 175
 Arg Leu Leu Ala Ala Arg Asp Leu Pro Arg Ala Pro Gln Ser Arg Arg
 180 185 190
 Pro Gly Gly Pro Gln Gln Leu Gly Thr His Tyr Thr Asp Ala Arg
 195 200 205

<210> 33
 <211> 259
 <212> PRT
 <213> Homo sapiens

<400> 33
 Met Gly Leu Leu Leu Val Pro Leu Leu Leu Leu Pro Gly Ser Tyr
 1 5 10 15
 Gly Leu Pro Phe Tyr Asn Gly Phe Tyr Tyr Ser Asn Ser Ala Asn Asp
 20 25 30
 Gln Asn Leu Gly Asn Gly His Gly Lys Asp Leu Leu Asn Gly Val Lys
 35 40 45
 Leu Val Val Glu Thr Pro Glu Glu Thr Leu Phe Thr Tyr Gln Gly Ala
 50 55 60
 Ser Val Ile Leu Pro Cys Arg Tyr Arg Tyr Glu Pro Ala Leu Val Ser
 65 70 75 80
 Pro Arg Arg Val Arg Val Lys Trp Trp Lys Leu Ser Glu Asn Gly Ala
 85 90 95
 Pro Glu Lys Asp Val Leu Val Ala Ile Gly Leu Arg His Arg Ser Phe
 100 105 110
 Gly Asp Tyr Gln Gly Arg Val His Leu Arg Gln Asp Lys Glu His Asp
 115 120 125
 Val Ser Leu Glu Ile Gln Asp Leu Arg Leu Glu Asp Tyr Gly Arg Tyr
 130 135 140
 Arg Cys Glu Val Ile Asp Gly Leu Glu Asp Glu Ser Gly Leu Val Glu
 145 150 155 160
 Leu Glu Leu Arg Gly Arg Val Tyr Tyr Leu Glu His Pro Glu Lys Leu
 165 170 175
 Thr Leu Thr Glu Ala Arg Glu Ala Cys Gln Glu Asp Asp Ala Thr Ile
 180 185 190
 Ala Lys Val Gly Gln Leu Phe Ala Ala Trp Lys Phe His Gly Leu Asp
 195 200 205

Arg Cys Asp Ala Gly Trp Leu Ala Asp Gly Ser Val Arg Tyr Pro Val
 210 215 220

Val His Pro His Pro Asn Cys Gly Pro Pro Glu Pro Gly Val Arg Ser
 225 230 235 240

Phe Gly Phe Pro Asp Pro Gln Ser Arg Leu Tyr Gly Val Tyr Cys Tyr
 245 250 255

Arg Gln His

<210> 34

<211> 168

<212> PRT

<213> Homo sapiens

<400> 34

Met Ile Ser Leu Pro Gly Pro Leu Val Thr Asn Leu Leu Arg Phe Leu
 1 5 10 15

Phe Leu Gly Leu Ser Ala Leu Ala Pro Pro Ser Arg Ala Gln Leu Gln
 20 25 30

Leu His Leu Pro Ala Asn Arg Leu Gln Ala Val Glu Gly Gly Glu Val
 35 40 45

Val Leu Pro Ala Trp Tyr Thr Leu His Gly Glu Val Ser Ser Ser Gln
 50 55 60

Pro Trp Glu Val Pro Phe Val Met Trp Phe Phe Lys Gln Lys Glu Lys
 65 70 75 80

Glu Gly Gln Val Leu Ser Tyr Ile Asn Gly Val Thr Thr Ser Lys Pro
 85 90 95

Gly Val Ser Leu Val Tyr Ser Met Pro Ser Arg Asn Leu Ser Leu Arg
 100 105 110

Leu Glu Gly Leu Gln Glu Lys Asp Ser Gly Pro Tyr Ser Cys Ser Val
 115 120 125

Asn Val Gln Asp Lys Gln Gly Lys Ser Arg Gly His Ser Ile Lys Thr
 130 135 140

Leu Glu Leu Asn Val Leu Gly Cys Ala Pro Cys Gly Gly Lys Arg Asp
 145 150 155 160

Pro Glu Leu Pro Val Ser Lys Glu
 165

<210> 35

<211> 373

<212> PRT

<213> Homo sapiens

<400> 35

Met	Ala	Pro	Arg	Thr	Leu	Trp	Ser	Cys	Tyr	Leu	Cys	Cys	Leu	Leu	Thr
1				5					10					15	
Ala	Ala	Ala	Gly	Ala	Ala	Ser	Tyr	Pro	Pro	Arg	Gly	Phe	Ser	Leu	Tyr
			20					25					30		
Thr	Gly	Ser	Ser	Gly	Ala	Leu	Ser	Pro	Gly	Gly	Pro	Gln	Ala	Gln	Ile
		35					40					45			
Ala	Pro	Arg	Pro	Ala	Ser	Arg	His	Arg	Asn	Trp	Cys	Ala	Tyr	Val	Val
	50					55					60				
Thr	Arg	Thr	Val	Ser	Cys	Val	Leu	Glu	Asp	Gly	Val	Glu	Thr	Tyr	Val
65					70					75					80
Lys	Tyr	Gln	Pro	Cys	Ala	Trp	Gly	Gln	Pro	Gln	Cys	Pro	Gln	Ser	Ile
				85					90					95	
Met	Tyr	Arg	Arg	Phe	Leu	Arg	Pro	Arg	Tyr	Arg	Val	Ala	Tyr	Lys	Thr
			100					105					110		
Val	Thr	Asp	Met	Glu	Trp	Arg	Cys	Cys	Gln	Gly	Tyr	Gly	Gly	Asp	Asp
		115					120					125			
Cys	Ala	Glu	Ser	Pro	Ala	Pro	Ala	Leu	Gly	Pro	Ala	Ser	Ser	Thr	Pro
	130					135					140				
Arg	Pro	Leu	Ala	Arg	Pro	Ala	Arg	Pro	Asn	Leu	Ser	Gly	Ser	Ser	Ala
145					150					155					160
Gly	Ser	Pro	Leu	Ser	Gly	Leu	Gly	Gly	Glu	Gly	Pro	Ala	Gly	Glu	Ala
				165					170					175	
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Gln	Gly	Pro	Pro	Gly	Pro	Ala	Gly
			180					185					190		
Pro	Pro	Gly	Ser	Pro	Gly	Lys	Asp	Gly	Gln	Glu	Gly	Pro	Ile	Gly	Pro
		195					200					205			
Pro	Gly	Pro	Gln	Gly	Glu	Gln	Gly	Val	Glu	Gly	Ala	Pro	Ala	Ala	Pro
	210					215					220				
Val	Pro	Gln	Val	Ala	Phe	Ser	Ala	Ala	Leu	Ser	Leu	Pro	Arg	Ser	Glu
225					230					235					240
Pro	Gly	Thr	Val	Pro	Phe	Asp	Arg	Val	Leu	Leu	Asn	Asp	Gly	Gly	Tyr
				245					250					255	
Tyr	Asp	Pro	Glu	Thr	Gly	Val	Phe	Thr	Ala	Pro	Leu	Ala	Gly	Arg	Tyr
		260						265					270		
Leu	Leu	Ser	Ala	Val	Leu	Thr	Gly	His	Arg	His	Glu	Lys	Val	Glu	Ala
		275					280					285			
Val	Leu	Ser	Arg	Ser	Asn	Gln	Gly	Val	Ala	Arg	Val	Asp	Ser	Gly	Gly
	290					295					300				

Tyr Glu Pro Glu Gly Leu Glu Asn Lys Pro Val Ala Glu Ser Gln Pro
 305 310 315 320
 Ser Pro Gly Thr Leu Gly Val Phe Ser Leu Ile Leu Pro Leu Gln Ala
 325 330 335
 Gly Asp Thr Val Cys Val Asp Leu Val Met Gly Gln Leu Ala His Ser
 340 345 350
 Glu Glu Pro Leu Thr Ile Phe Ser Gly Ala Leu Leu Tyr Gly Asp Pro
 355 360 365
 Glu Leu Glu His Ala
 370

<210> 36
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 36
 Met Ile Ile Leu Ile Tyr Leu Phe Leu Leu Leu Trp Glu Asp Thr Gln
 1 5 10 15
 Gly Trp Gly Phe Lys Asp Gly Ile Phe His Asn Ser Ile Trp Leu Glu
 20 25 30
 Arg Ala Ala Gly Val Tyr His Arg Glu Ala Arg Ser Gly Lys Tyr Lys
 35 40 45
 Leu Thr Tyr Ala Glu Ala Lys Ala Val Cys Glu Phe Glu Gly Gly His
 50 55 60
 Leu Ala Thr Tyr Lys Gln Leu Glu Ala Ala Arg Lys Ile Gly Phe His
 65 70 75 80
 Val Cys Ala Ala Gly Trp Met Ala Lys Gly Arg Val Gly Tyr Pro Ile
 85 90 95
 Val Lys Pro Gly Pro Asn Cys Gly Phe Gly Lys Thr Gly Ile Ile Asp
 100 105 110
 Tyr Gly Ile Arg Leu Asn Arg Ser Glu Arg Trp Asp Ala Tyr Cys Tyr
 115 120 125
 Asn Pro His Ala Lys Glu Cys Gly Gly Val Phe Thr Asp Pro Lys Gln
 130 135 140
 Ile Phe Lys Ser Pro Gly Phe Pro Asn Glu Tyr Glu Asp Asn Gln Ile
 145 150 155 160
 Cys Tyr Trp His Ile Arg Leu Lys Tyr Cys Gly Asp Glu Leu Pro Asp
 165 170 175
 Asp Ile Ile Ser Thr Gly Asn Val Met Thr Leu Lys Phe Leu Ser Asp
 180 185 190

Ala Ser Val Thr Ala Gly Gly Phe Gln Ile Lys Tyr Val Ala Met Asp
 195 200 205

Pro Val Ser Lys Ser Ser Gln Gly Lys Asn Thr Ser Thr Thr Ser Thr
 210 215 220

Gly Asn Lys Asn Phe Leu Ala Gly Arg Phe Ser His Leu
 225 230 235

<210> 37

<211> 163

<212> PRT

<213> Homo sapiens

<400> 37

Met Leu Leu Ile Leu Leu Ser Val Ala Leu Leu Ala Leu Ser Ser Ala
 1 5 10 15

Glu Ser Ala Ser Glu Asp Val Ser Gln Glu Glu Ser Leu Phe Leu Ile
 20 25 30

Ser Gly Lys Pro Glu Gly Arg Arg Pro Gln Gly Gly Asn Gln Pro Gln
 35 40 45

Arg Pro Pro Pro Pro Gly Lys Pro Gln Gly Pro Pro Pro Gln Gly
 50 55 60

Gly Asn Gln Ser Gln Gly Pro Pro Pro Pro Gly Lys Pro Glu Gly
 65 70 75 80

Pro Pro Pro Gln Glu Gly Asn Lys Ser Arg Ser Ala Arg Ser Pro Pro
 85 90 95

Gly Lys Pro Gln Gly Pro Pro Gln Gln Glu Gly Asn Lys Pro Gln Gly
 100 105 110

Pro Pro Pro Pro Gly Lys Pro Gln Gly Pro Pro Pro Pro Gly Gly Asn
 115 120 125

Pro Gln Gln Pro Gln Ala Pro Pro Ala Gly Lys Pro Gln Gly Pro Pro
 130 135 140

Pro Pro Pro Gln Gly Gly Arg Pro Pro Arg Pro Ala Gln Gly Gln Gln
 145 150 155 160

Pro Pro Gln

<210> 38

<211> 207

<212> PRT

<213> Homo sapiens

<400> 38

Met Ser Lys Gln Arg Gly Thr Phe Ser Glu Val Ser Leu Ala Gln Asp
 1 5 10 15

Pro Lys Arg Gln Gln Arg Lys Pro Lys Gly Asn Lys Ser Ser Ile Ser
 20 25 30
 Gly Thr Glu Gln Glu Ile Phe Gln Val Glu Leu Asn Leu Gln Asn Pro
 35 40 45
 Ser Leu Asn His Gln Gly Ile Asp Lys Ile Tyr Asp Cys Gln Gly Leu
 50 55 60
 Leu Pro Pro Pro Glu Lys Leu Thr Ala Glu Val Leu Gly Ile Ile Cys
 65 70 75 80
 Ile Val Leu Met Ala Thr Val Leu Lys Thr Ile Val Leu Ile Pro Phe
 85 90 95
 Leu Glu Gln Asn Asn Ser Ser Pro Asn Thr Arg Thr Gln Lys Ala Arg
 100 105 110
 His Cys Gly His Cys Pro Glu Glu Trp Ile Thr Tyr Ser Asn Ser Cys
 115 120 125
 Tyr Tyr Ile Gly Lys Glu Arg Arg Thr Trp Glu Glu Ser Leu Leu Ala
 130 135 140
 Cys Thr Ser Lys Asn Ser Ser Leu Leu Ser Ile Asp Asn Glu Glu Glu
 145 150 155 160
 Met Lys Phe Leu Ala Ser Ile Leu Pro Ser Ser Trp Ile Gly Val Phe
 165 170 175
 Arg Asn Ser Ser His His Pro Trp Val Thr Ile Asn Gly Leu Ala Phe
 180 185 190
 Lys His Asn Thr Trp Lys Met Leu Ser Ser His Glu Ser Phe Ala
 195 200 205

<210> 39
 <211> 531
 <212> PRT
 <213> Homo sapiens

<400> 39
 Met Gly Pro Gly Glu Arg Ala Gly Gly Gly Gly Asp Ala Gly Lys Gly
 1 5 10 15
 Asn Ala Ala Gly Gly Gly Gly Gly Gly Arg Ser Ala Thr Thr Ala Gly
 20 25 30
 Ser Arg Ala Val Ser Ala Leu Cys Leu Leu Leu Ser Val Gly Ser Ala
 35 40 45
 Ala Ala Cys Leu Leu Leu Gly Val Gln Ala Ala Ala Leu Gln Gly Arg
 50 55 60
 Val Ala Ala Leu Glu Glu Arg Glu Leu Leu Arg Arg Ala Gly Pro
 65 70 75 80

Pro	Gly	Ala	Leu	Asp	Ala	Trp	Ala	Glu	Pro	His	Leu	Glu	Arg	Leu	Leu	
				85					90					95		
Arg	Glu	Lys	Leu	Asp	Gly	Leu	Ala	Lys	Ile	Arg	Thr	Ala	Arg	Glu	Ala	
			100					105					110			
Pro	Ser	Glu	Cys	Val	Cys	Pro	Pro	Gly	Pro	Pro	Gly	Arg	Arg	Gly	Lys	
		115					120					125				
Pro	Gly	Arg	Arg	Gly	Asp	Pro	Gly	Pro	Pro	Gly	Gln	Ser	Gly	Arg	Asp	
		130					135					140				
Gly	Tyr	Pro	Gly	Pro	Leu	Gly	Leu	Asp	Gly	Lys	Pro	Gly	Leu	Pro	Gly	
		145					150					155				
Pro	Lys	Gly	Glu	Lys	Gly	Asp	Gln	Gly	Gln	Asp	Gly	Ala	Ala	Gly	Pro	
			165					170					175			
Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ala	Arg	Gly	Pro	Pro	Gly	Asp	Thr	
			180					185					190			
Gly	Lys	Asp	Gly	Pro	Arg	Gly	Ala	Gln	Ser	Pro	Ala	Gly	Pro	Lys	Gly	
		195					200					205				
Glu	Pro	Gly	Gln	Asp	Gly	Glu	Met	Gly	Pro	Lys	Gly	Pro	Pro	Gly	Pro	
		210					215					220				
Lys	Gly	Glu	Pro	Gly	Val	Pro	Gly	Lys	Lys	Gly	Asp	Asp	Gly	Thr	Pro	
		225					230					235				
Ser	Gln	Pro	Gly	Pro	Pro	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Ser	Met	Gly	
			245					250					255			
Pro	Arg	Gly	Glu	Asn	Gly	Val	Asp	Gly	Ala	Pro	Gly	Pro	Lys	Gly	Glu	
		260					265					270				
Pro	Gly	His	Arg	Gly	Thr	Asp	Gly	Ala	Ala	Gly	Pro	Arg	Gly	Ala	Pro	
		275					280					285				
Gly	Leu	Lys	Gly	Glu	Gln	Gly	Asp	Thr	Val	Val	Ile	Asp	Tyr	Asp	Gly	
		290					295					300				
Arg	Ile	Leu	Asp	Ala	Leu	Lys	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Pro	Pro	
		305					310					315				
Gly	Pro	Pro	Gly	Ile	Pro	Gly	Ala	Lys	Gly	Glu	Leu	Gly	Leu	Pro	Gly	
			325					330					335			
Ala	Pro	Gly	Ile	Asp	Gly	Glu	Lys	Gly	Pro	Lys	Gly	Gln	Lys	Gly	Asp	
		340					345					350				
Pro	Gly	Glu	Pro	Gly	Pro	Ala	Gly	Leu	Lys	Gly	Glu	Ala	Gly	Glu	Met	
		355					360					365				
Gly	Leu	Ser	Gly	Leu	Pro	Gly	Ala	Asp	Gly	Leu	Lys	Gly	Glu	Lys	Gly	
		370					375					380				

Glu Ser Ala Ser Asp Ser Leu Gln Glu Ser Leu Ala Gln Leu Ile Val
 385 390 395 400
 Glu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Met Gly Leu
 405 410 415
 Gln Gly Ile Gln Gly Pro Lys Gly Leu Asp Gly Ala Lys Gly Glu Lys
 420 425 430
 Gly Ala Ser Gly Glu Arg Gly Pro Ser Gly Leu Pro Gly Pro Val Gly
 435 440 445
 Pro Pro Gly Leu Ile Gly Leu Pro Gly Thr Lys Gly Glu Lys Gly Arg
 450 455 460
 Pro Gly Glu Pro Gly Leu Asp Gly Phe Pro Gly Pro Arg Gly Glu Lys
 465 470 475 480
 Gly Asp Arg Ser Glu Arg Gly Glu Lys Gly Glu Arg Gly Val Pro Gly
 485 490 495
 Arg Lys Gly Val Lys Gly Gln Lys Gly Glu Pro Gly Pro Pro Gly Leu
 500 505 510
 Asp Gln Pro Cys Pro Val Gly Pro Asp Gly Leu Pro Val Pro Gly Cys
 515 520 525
 Trp His Lys
 530

<210> 40
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 40
 Met Ile Thr Glu Gly Ala Gln Ala Pro Arg Leu Leu Leu Pro Pro Leu
 1 5 10 15
 Leu Leu Leu Leu Thr Leu Pro Ala Thr Gly Ser Asp Pro Val Leu Cys
 20 25 30
 Phe Thr Gln Tyr Glu Glu Ser Ser Gly Lys Cys Lys Gly Leu Leu Gly
 35 40 45
 Gly Gly Val Ser Val Glu Asp Cys Cys Leu Asn Thr Ala Phe Ala Tyr
 50 55 60
 Gln Lys Arg Ser Gly Gly Leu Cys Gln Pro Cys Arg Ser Pro Arg Trp
 65 70 75 80
 Ser Leu Trp Ser Thr Trp Ala Pro Cys Ser Val Thr Cys Ser Glu Gly
 85 90 95
 Ser Gln Leu Arg Tyr Arg Arg Cys Val Gly Trp Asn Gly Gln Cys Ser
 100 105 110

Gly Lys Val Ala Pro Gly Thr Leu Glu Trp Gln Leu Gln Ala Cys Glu
 115 120 125
 Asp Gln Gln Cys Cys Pro Glu Met Gly Gly Trp Ser Gly Trp Gly Pro
 130 135 140
 Trp Glu Pro Cys Ser Val Thr Cys Ser Lys Gly Thr Arg Thr Arg Arg
 145 150 155 160
 Arg Ala Cys Asn His Pro Ala Pro Lys Cys Gly Gly His Cys Pro Gly
 165 170 175
 Gln Ala Gln Glu Ser Glu Ala Cys Asp Thr Gln Gln Val Cys Pro Met
 180 185 190
 Asp Gly Glu Trp Asp Ser Trp Gly Glu Trp Ser Pro Cys Ile Arg Arg
 195 200 205
 Asn Met Lys Ser Ile Ser Cys Gln Glu Ile Pro Gly Gln Gln Ser Arg
 210 215 220
 Gly Arg Thr Cys Arg Gly Arg Lys Phe Asp Gly His Arg Cys Ala Gly
 225 230 235 240
 Gln Gln Gln Asp Ile Arg His Cys Tyr Ser Ile Gln His Cys Pro Leu
 245 250 255
 Lys Gly Ser Trp Ser Glu Trp Ser Thr Trp Gly Leu Cys Met Pro Pro
 260 265 270
 Cys Gly Pro Asn Pro Thr Arg Ala Arg Gln Arg Leu Cys Thr Pro Leu
 275 280 285
 Leu Pro Lys Tyr Pro Pro Thr Val Ser Met Val Glu Gly Gln Gly Glu
 290 295 300
 Lys Asn Val Thr Phe Trp Gly Arg Pro Leu Pro Arg Cys Glu Glu Leu
 305 310 315 320
 Gln Gly Gln Lys Leu Val Val Glu Glu Lys Arg Pro Cys Leu His Val
 325 330 335
 Pro Ala Cys Lys Asp Pro Glu Glu Glu Glu Leu
 340 345

<210> 41

<211> 366

<212> PRT

<213> Homo sapiens

<400> 41

Met Val Pro Pro Pro Ser Arg Gly Gly Ala Ala Arg Gly Gln Leu
 1 5 10 15

Gly Arg Ser Leu Gly Pro Leu Leu Leu Leu Ala Leu Gly His Thr
 20 25 30

Trp Thr Tyr Arg Glu Glu Pro Gln Asp Gly Asp Arg Glu Ile Cys Ser
 35 40 45
 Glu Ser Lys Ile Ala Thr Thr Lys Tyr Pro Cys Leu Lys Ser Ser Gly
 50 55 60
 Glu Leu Thr Thr Cys Tyr Arg Lys Lys Cys Cys Lys Gly Tyr Lys Phe
 65 70 75 80
 Val Leu Gly Gln Cys Ile Pro Glu Asp Tyr Asp Val Cys Ala Glu Ala
 85 90 95
 Pro Cys Glu Gln Gln Cys Thr Asp Asn Phe Gly Arg Val Leu Cys Thr
 100 105 110
 Cys Tyr Pro Gly Tyr Arg Tyr Asp Arg Glu Arg His Arg Lys Arg Glu
 115 120 125
 Lys Pro Tyr Cys Leu Asp Ile Asp Glu Cys Ala Ser Ser Asn Gly Thr
 130 135 140
 Leu Cys Ala His Ile Cys Ile Asn Thr Leu Gly Ser Tyr Arg Cys Glu
 145 150 155 160
 Cys Arg Glu Gly Tyr Ile Arg Glu Asp Asp Gly Lys Thr Cys Thr Arg
 165 170 175
 Gly Asp Lys Tyr Pro Asn Asp Thr Gly His Glu Lys Ser Glu Asn Met
 180 185 190
 Val Lys Ala Gly Thr Cys Cys Ala Thr Cys Lys Glu Phe Tyr Gln Met
 195 200 205
 Lys Gln Thr Val Leu Gln Leu Lys Gln Lys Ile Ala Leu Leu Pro Asn
 210 215 220
 Asn Ala Ala Asp Leu Gly Lys Tyr Ile Thr Gly Asp Lys Val Leu Ala
 225 230 235 240
 Ser Asn Thr Tyr Leu Pro Gly Pro Pro Gly Leu Pro Gly Gly Gln Gly
 245 250 255
 Pro Pro Gly Ser Pro Gly Pro Lys Gly Ser Pro Gly Phe Pro Gly Met
 260 265 270
 Pro Gly Pro Pro Gly Gln Pro Gly Pro Arg Gly Ser Met Gly Pro Met
 275 280 285
 Gly Pro Ser Pro Asp Leu Ser His Ile Lys Gln Gly Arg Arg Gly Pro
 290 295 300
 Val Gly Pro Pro Gly Ala Pro Gly Arg Asp Gly Ser Lys Gly Glu Arg
 305 310 315 320
 Gly Ala Pro Gly Pro Arg Gly Ser Pro Val Ser Ser Thr Leu Cys Pro
 325 330 335

Ala Ser Pro Gly Glu Arg Ser Gln Gly Cys Ser Ser Asp Glu Pro Ile
 340 345 350

Gly Thr Pro Trp Phe Phe Arg Leu Pro Ala Thr Tyr Ala Gly
 355 360 365

<210> 42

<211> 247

<212> PRT

<213> Homo sapiens

<400> 42

Met Val Val Leu Asn Pro Met Thr Leu Gly Ile Tyr Leu Gln Leu Phe
 1 5 10 15

Phe Leu Ser Ile Val Ser Gln Pro Thr Phe Ile Asn Ser Val Leu Pro
 20 25 30

Ile Ser Ala Ala Leu Pro Ser Leu Asp Gln Lys Lys Arg Gly Gly His
 35 40 45

Lys Ala Cys Cys Leu Leu Thr Pro Pro Pro Pro Pro Leu Phe Pro Pro
 50 55 60

Pro Phe Phe Arg Gly Gly Arg Ser Pro Gly Pro Pro Gly Leu Pro Gly
 65 70 75 80

Lys Thr Gly Pro Lys Gly Glu Lys Gly Glu Leu Gly Arg Pro Gly Arg
 85 90 95

Lys Gly Arg Pro Gly Pro Pro Gly Val Pro Gly Met Pro Gly Pro Ile
 100 105 110

Gly Trp Pro Gly Pro Glu Gly Pro Arg Gly Glu Lys Gly Asp Gln Gly
 115 120 125

Met Met Gly Leu Pro Gly Ser Arg Gly Pro Met Gly Ser Lys Gly Tyr
 130 135 140

Pro Gly Ser Arg Gly Glu Lys Gly Ser Arg Gly Glu Lys Gly Gly Leu
 145 150 155 160

Gly Pro Lys Gly Glu Lys Gly Phe Pro Gly Phe Pro Gly Met Leu Gly
 165 170 175

Gln Lys Gly Gly Met Gly Pro Lys Gly Glu Pro Gly Ile Ala Gly His
 180 185 190

Arg Gly Pro Thr Gly Arg Pro Gly Lys Arg Gly Lys Gln Gly Gln Lys
 195 200 205

Gly Asp Ser Gly Val Met Gly Pro Pro Gly Lys Pro Gly Pro Ser Gly
 210 215 220

Gln Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Pro Ala Asp Phe Cys
 225 230 235 240

Gly Gln Gln Pro Gly Gly Ala
245

<210> 43
<211> 4720
<212> DNA
<213> Homo sapiens

<400> 43
ctggaggccg gggcgggacg cgttggtgcag cgggtaagcg cacggccgag cgagcatgga 60
gggggaccgg gtggccgggc ggccggtgct gtcgtcggtta ccagtgcctac tgctgctgca 120
gttgctaata ttgcggggccg cggcgctgca cccagacgag ctcttcccac acggggagtc 180
gtggggggac cagctcctgc aggaaggcga cgacgaaagc tcagccgtgg tgaagctggc 240
gaatccccctg cacttctacg aagcccgatt cagcaacctc tacgtgggca ccaacggcat 300
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<211> 839

<212> DNA

<213> Homo sapiens

<400> 46

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<210> 47

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 2320

<212> DNA

<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <211> 906
 <212> DNA
 <213> Homo sapiens

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 <213> Homo sapiens

<400> 52						
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<210> 53

<211> 1090

<212> DNA

<213> Homo sapiens

<400> 53

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<210> 54

<211> 776

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55
<211> 549
<212> DNA
<213> Homo sapiens

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<400> 55
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<212> DNA
<213> Homo sapiens

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<210> 57
<211> 1751
<212> DNA
<213> Homo sapiens

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<210> 58

<211> 3010

<212> DNA

<213> Homo sapiens

<400> 58

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<211> 3242

<212> DNA

<213> Homo sapiens

<400> 59

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<211> 1360

<212> DNA

<213> Homo sapiens

<400> 60

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1360

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<211> 1015

<212> DNA

<213> Homo sapiens

<400> 61

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<211> 1489

<212> DNA

<213> Homo sapiens

<400> 62

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1489

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<211> 3871

<212> DNA

<213> Homo sapiens

<400> 63

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<211> 270

<212> DNA

<213> Homo sapiens

<400> 64

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<211> 1216

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 1321

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1014

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<210> 72
<211> 545
<212> DNA
<213> Homo sapiens

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<400> 72
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545

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<210> 73
<211> 831
<212> DNA
<213> Homo sapiens

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<400> 73
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cacttaccac tgtggccttg gaaaagcctc tctgcatgtt tgacagcaaa gaggcctca 180

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<210> 74

<211> 888

<212> DNA

<213> Homo sapiens

<400> 74

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<210> 75

<211> 795

<212> DNA

<213> Homo sapiens

<400> 75

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<210> 76
 <211> 1174
 <212> DNA
 <213> Homo sapiens

<400> 76
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<210> 77
 <211> 1159
 <212> DNA
 <213> Homo sapiens

<400> 77
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<210> 78
 <211> 813
 <212> DNA
 <213> Homo sapiens

<400> 78

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<210> 79
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 79

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cgacgcccac	aaggaggaaa	ccagcccca	cgtccccac	ctcctccagg	aaagccacaa	180
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caacagcctc	cccagtaatc	taa				503

<210> 80
 <211> 805
 <212> DNA
 <213> Homo sapiens

<400> 80

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gtttgcatatt gcagtgcatt agata

805

<210> 81

<211> 3140

<212> DNA

<213> Homo sapiens

<400> 81

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<210> 82

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 82

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